

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Nasmyth *et al.*

Appl. No. 09/308,109

102(e) Date: June 2, 1999

For: **Methods for Producing the
Anaphase Promoting Complex**



Confirmation No.

Art Unit: 1647

Examiner: Saoud, C.

Atty. Docket: 0652.1880000/EKS/KKV

Request to Approve Proposed Drawing Corrections

Commissioner for Patents
Washington, D.C. 20231

Sir:

Attached are copies of six (6) sheets of drawings, containing proposed corrections to Figures 6, 10 and 11, shown in red. The proposed changes are the result of the deletion of the sequences in Figures 6B, 10A and 11A. These figures only show sequence comparisons which are not required to practice the claimed invention. Thus, the proposed changes add no new matter to this application. Applicants request that the Examiner approve the proposed corrections. After official communication of such approval, Applicants will make the appropriate corrections to the formal drawings.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

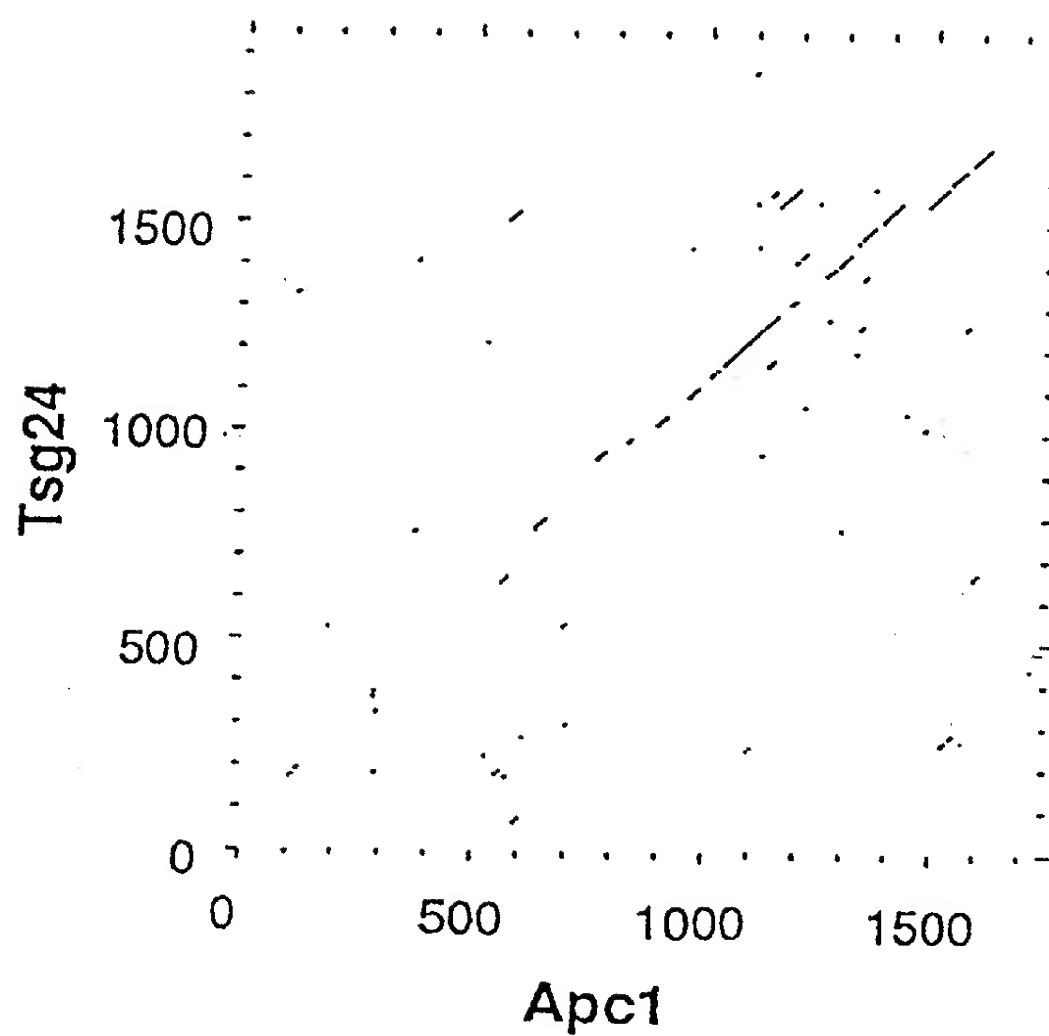
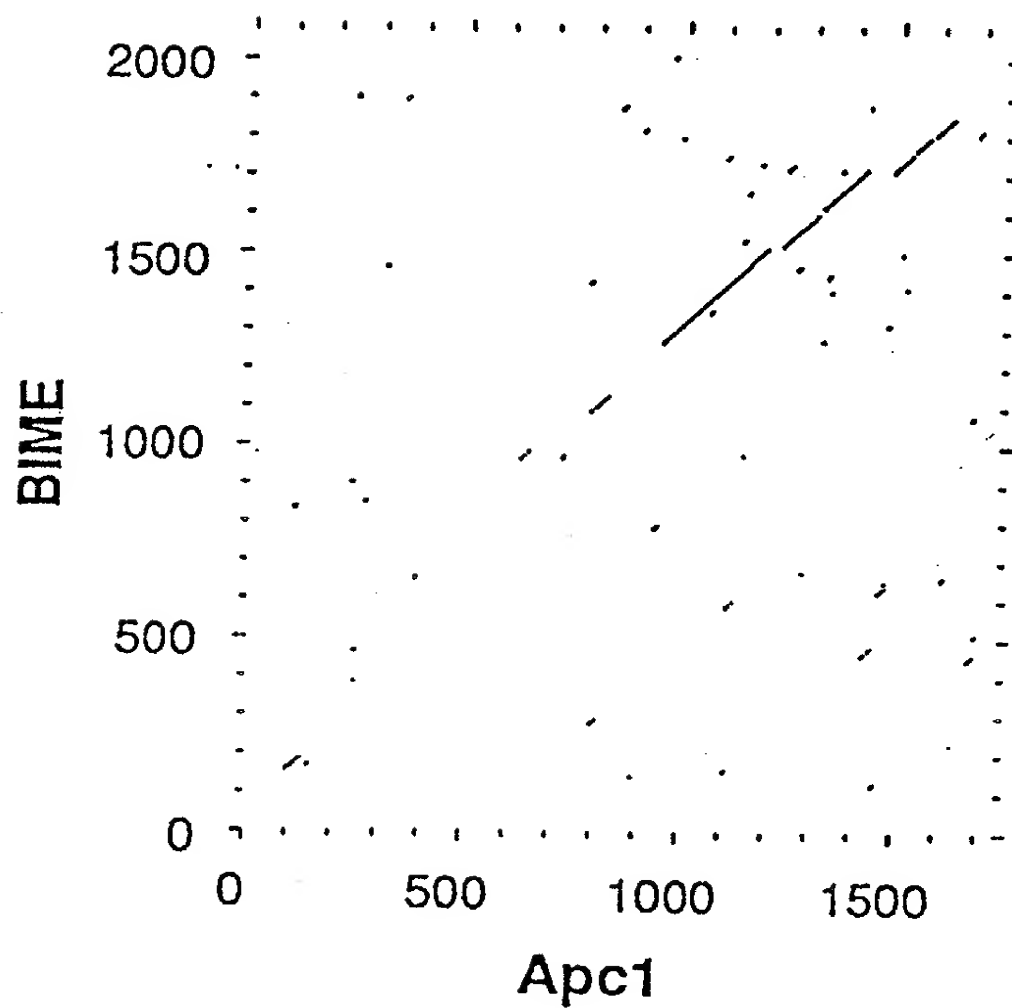
Kristin K. Vidovich

Kristin K. Vidovich
Attorney for Applicants
Registration No. 41,448

Date: Feb. 22, 2001
1100 New York Avenue, N.W.
Suite 600
Washington, D.C. 20005-3934
(202) 371-2600

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Fig. 6A
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Fig. 6B

apcl AG LIFSEDKRFTHVSLAYYRPTKTOFFT.TKTEYAOIQAOKKYFAKIMALRTCTNGVG 960
bime . . LIFREDKRFIEAARLLNQSKAPAAECHPEPEWTDSOLLEAOKEVQVLVTLRTLSISTG 1274
tsg24 . . LIWSEDLRVQHVRLLQSAQEVVRVNVVQYPELS DHEFIEERENRLLQLCQRTMALPYG 1083
Consensus -- LIFSEDKRF-HV-RLL- - - - P - - - - - PE - - D - - - LE-KK - - - - - LRT - - - - - PYG 1366

apcl GAVAYATEKPISTCRWVIOPLNLISVFE. . DDTKITVKAPE DIAHDIVEWGQFHAGVSS 1018
bime GAVLA FSCRLPLLTETLPIDSFSLQCCMKPSNVITISADRASFH. . EEKICQAFPHNGVST 1332
tsg24 RGMFTLFSYHPVPTETPLVYKLNLTGRAPPRNTTVOLNSGNI DVPPNMASSWASFHNGVAA 1143
Consensus RGM-A - - - - - P - - - - - TEKLPID-LNL - - - - - P - - - - - A - - - - - D - - - - - WA-FHNGVS- 1426

apcl GLRISKKATGITGSVIAFNKPK. . ELDAYHGGFLLGLGLNGHLKNLEEWHTYNYLSERNT 1076
bime GLAISENSKCIDTSVILENKPO. . ELTRRHAGFLLALGLNGHLRSLSAKWVAFKYLTETKHT 1390
tsg24 GLKIA PASQ. IDS AWI VYNKPKHAE LAHEYAGFLMALGLNGHLTKLATLNTHTDYLTGHE 1202
Consensus GL-ISK-S-GID-SVI-FNKPK- - - - - EL-N-HAGFLLALGLNGHL- - - - - LA-W-I- - - - - YLTP-HT 1486

apcl HISIGLLLGMSSSMKGSMDSKLIEYISVHLVAFLESGSSDLNIDLKLOTAGI/GMGHLYL 1136
bime NTSIGLLLGLSASYLGTMDTLVTRLLSYHVTRMLPBMGAABELNLSPLTOTAGIMCIGLLYC 1450
tsg24 NTSIGLLLGVSAAKLGTMDSITRLLSTHVPALEPTSTELDVPHNVQVAVVVGIGLVYQ 1262
Consensus NTSIGLLLG-SAS-LGTM- - - - - TRLLSYHV-A-LP-GS-ELN - - - - - OTAGI-GIGLLY- 1546

apcl NSRHRRNSDSIFALVSLNVIDEMVAD. EYRLAAGISLGLINAGAGQTKLRKWD 1192
bime NSQHRHRMSEVMSEIENADQEEG SATNDYLRNEG YRLAAGFALGFIMLGK. K 1502
tsg24 GTAHRHTAEVLAEIGRPPGPEMEYCTD. RESYSLAAGLALGMVCLGHG. S 1311
Consensus NS-HRRNSEV-LAEI- - - - - E-E- - - - - D - - - - - E-YRLAAG-ALG-INLG-G- - - - - S 1606

apcl SLLGLGD. DLLEDYHDS SDVEQNVMYEDLTTKLLEIVTSTY. DVENDWTPENSQIGAVIA 1250
bime DLKGRHROMHIVERELAVAVGT. HNDLAHVLD RATA GATIA 1542
tsg24 NLIGMSDLNVPEQLYQYMGHRRFQTCMHREKHKSPSYQMECDTINZ. DVTCPGATLA 1370
Consensus -L-GN-D- - - - - PE-LV- - - - - VG- - - - - - - - - - - H-VD- - - - - D- - - - - GATIA 1666

apcl IMFLFLYSNNFCHSNMFKVDLKEILKANTNTRPELLLYREWASNMILWFFIGODLSFIMK 1310
bime LAIFEMKTNDETLLAQKVDIPDTTVRFDYV. REDLELLRTLARHIIMDRIOACDETFIC 1600
tsg24 LAMLYLKTNNRSIA DWLRA PDTHYLLDFY. KPELELLRTLARCLLDVD DILPNSKHVDS 1428
Consensus LA-IFLEKTN- - - - - IA - - - - - L - - - - - PDT - - - - - L - D - - - - - RPELLLLRTLAR- - - - - ILVD - - - - - H - - - - - 1726

apcl DV. DIGVKFSE. ENWDLLEIYITMAGRILANGIRFASTGDLKIRNIE 1355
bime SLBEVYR. RRYRRTGVRRLKSNDMPF. FNIIAGLCEALGLRFAGSPDPTVRDIL 1652
tsg24 NYPQIIRENSISLSEIELPCSEDLNLETLQAHVYIIAGACLSLGFREFAGSEHLSAFSCL 1488
Consensus -VP- - - - - R - - - - - L - - - - - H - - - - - SED - - - - - L - - - - - - - - - - - YIIAG-CLALG-RFAGS-NL- - - - - R-IL 1786

apcl LSLVDKFLPLYQYFCKONLDPRLTISVINVTNVTVVSLSHVNCASGDLEVLRRVXYLHE 1415
bime LSYLDQFIRISRLPA. BNYDARLARNSVRHQQDVVALSLAATMAGTGDIALFRLRLSLH. 1710
tsg24 HKFAKDFMNY. LSA. PN. ASVTGPNLETCLSVVLSLAATMAGSGNLKVLQLCRFCH. 1543
Consensus LS - - D - F - - - - - LPA-PN-D-EL- - - - - C - - - - - VV-LSLAATMAGSGDE-VLRR-R-LH- 1846

apcl VASGPYSDLFQEIIPSSKSDVSGVTQVTSNTNTPGNSDRERVDETAASLDDERSSSNGSOIS 1475
bime 1710
tsg24 1543
Consensus 1906

apcl DPTAYLEDKKDIDDHVGKFISTHLAGFLFLGSGQYALNTSTLESIAFLSM SVLPITYTTP 1535
bime GRVDPDTVYQSHMAAHNAIGMLFLGCGSYTLGTSNLAVASLIC. SLYPIFPTT 1762
tsg24 MKTCGEMNYGFHLAHHMAIGMLFLGCGRYSLSSTNSISIALLC. ALYPHFPAH 1595
Consensus - - - - - H-D-D- - - YG-H-A-HMALG-LFLGCG-Y-L-TSNL- - - - - RALLC-SLYP-FPT- 1966

apcl HPLQDLHHFWSIAVEPRCLVIKDISTGDAVNNVPIELVVEEDVEKEE VIREISTP 1590
bime VLONEC HLOAFRHLVLAAPRCIVPRDLSRRFI. SMPITVTD. DGVSGLTAP 1816
tsg24 STDMRYHLOALRHLYVLAAPRLLVPRVDVDTNTPC. YALIEVYTKCTQWYEQTKBELMAP 1654
Consensus - - - - - HLOALRHLYVLAAPRCLVP-D-DT- - - - - P - - - - - PIEVT - - - - - E-V- - - - - EL-AP 2026

apcl CLLPDES KIKSIRVEMHGVPELVNFTDYSA. SDEFFSGGTIIYIQRKSE. SVFENKAS 1647
bime CLLPDLNRIAKVEVLSPDYPLVLDEDSNPGVREKEFOQGDQSIYLRKAT. YUPTG 1871
tsg24 TLDPDLHLLEQMKVYRGPRYDELIDLSHGEQHLRSILSKDGVLYVKLRAGQLSYKEOPMG 1714
Consensus CLLPDL - - - - - YK - - - - - PK-P- - - - - DE-K - - - - - F - - - - - SCD - - - - - IT - - - - - RKA - - - - - S - - - - - ENP-G 2086

apcl FRNVEDIHVALKRRKAE. SKNYSRLVNLKNEQGNSTSSQLVESFCIQDLTMVELDTLCS 1704
bime S. GFFSS TLACLSAODILP SASTSAS HQGKGLSPSACP NVSALLSKESHRTFPAPAO 1930
tsg24 WQSLLAQTANRNSEARAFKPTISSFT. SDPALLSFAEYFCMPTVSHGPQEI 1769
Consensus - - - - - TTA - - - - - SAA - - - - - S - - - - - S - - - - - S - - - - - E - - - - - L - - - - - H - - - - - PK - - - - - LS 2146

apcl AGNNTALT 1713
bime IWDWIFQLD 1939
tsg24 LFSSIL. YE1777
Consensus - - - - - I - - - - - D 2155

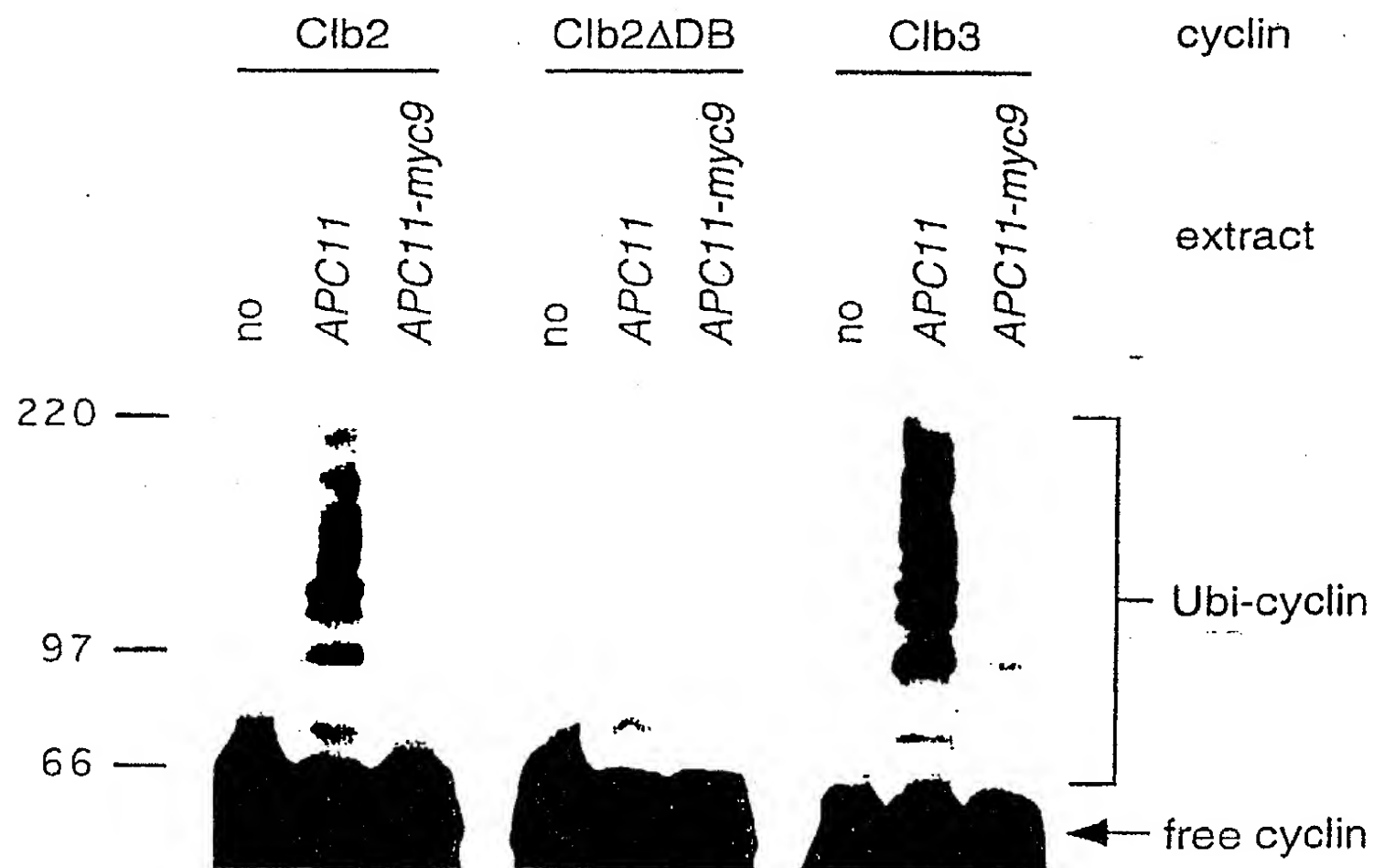
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Fig. 10

A

Hs MKVKIKCHNGVATHLHVAN- - - - -DENCGICRHAFNG
 Rn MKVKIKCHNGVATHLHVAN- - - - -DENCGICRHAFNG
 Om MKV7IKSHTGVATHRHEAN- - - - -DENCGICRHSFES
 Sp MKVKILRYHATANHTPK- - - - -DDVCGICRVPFDG
 Sc MKVKINEVHSVFAHSHIPSTSDEDAANNDPIGNOEDEDVCGICRASYNG

Hs CCPDCKVPGDDCPLVHGOCSHCFHMHCILKKWLHAOOVOHCPHCROEHKF
 Rn CCPDCKVPGDDCPLVHGOCSHCFHMHCILKKWLNAOOVOHCPHCROEHKF
 Om TCCPOCALTSPGDDCPLVHGVCSHCFHMHCIVKKWLNLOPLNOHCPHCROTSHKF
 Sp CCPOCITSPGDDCPLVHGKCKHTFHAHCIONNWLATSGSOGCPHCROTSHKF
 Sc TCCPSCKFPGDDCPLVTGLCHHNFHOHCIYRWLOTPISKGLCPHCROTFOL

B



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Fig. 11A

A

CeCul3 - - V V L P Q E L S V A Y E H F T Q Y Y T E K H Y G R K L T I N T L L G N A D V K A T F
 HsCul3 - - C N I P P A P R H A F E I F R R F Y L A K H S G R Q L Y L O H H N G S A O L N A T F F
 CeCul4 - - I N I P K E H R D T L T D Y Q D F Y R V Q H G N R N V K H W H H G L A S A V I S A S F F
 HsCul4a - - V H L T P E M I K L Q E V F K A F Y L G K H S G R K L Q H W O T T L G N A V L K A E F F
 DmCul1 - - F A L L P S E L E R S V R Q F F N E F Y A A R H S G R K L N H L Y Q H C K G E L I M N V
 HsCul1 - - F A L L P S E L E R S V R Q F F N E F Y A A R H S G R K L T H L Y Q L S K G E L V T N C
 HsCul2 - - F A I P Q E L E K S V O M F E L F Y S O H F S G R K L T H L H Y L C T G E V K M N Y
 ScCdc53 - - F K L P K E L V P S H E K L K E S Y S O K H N G R I L K W L R P L C R G E L K A D I
 CeKOH7.5 - - A L H P Q P L O A A H D V Y Q E T Y L D V K R D R K L E W L H R S V G C V E Y S I N I
 MmAp2 - - L E V P E D I R A A H D V Y C K K Y Y E K L K A M R T L S W K H T L G L V T H D V E L
 ScAp2 L A F H L P I D L E R E L Q K Y S D I Y S Q L K P G R K L O L C K D K G K V E I O L A F

B A

B

C

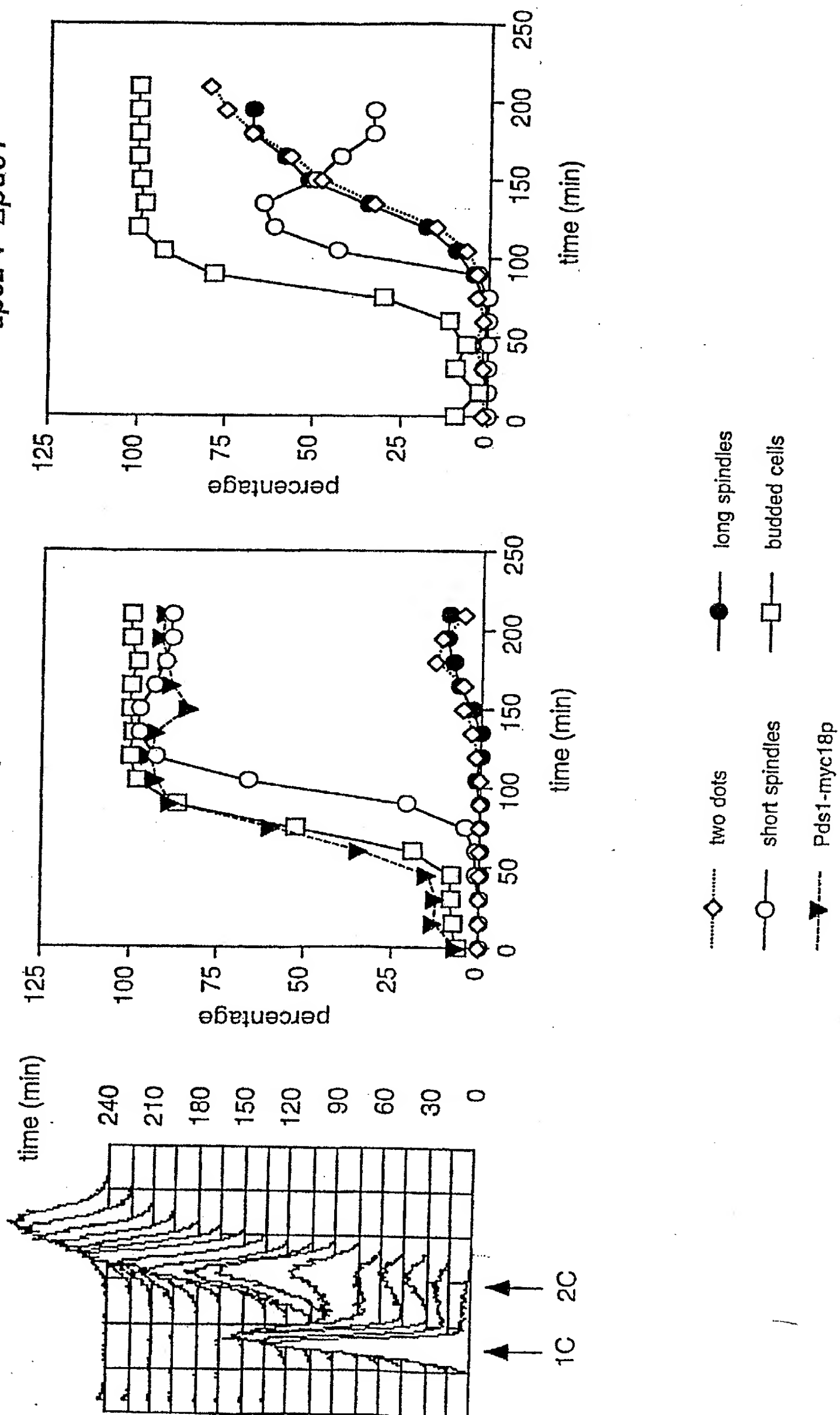
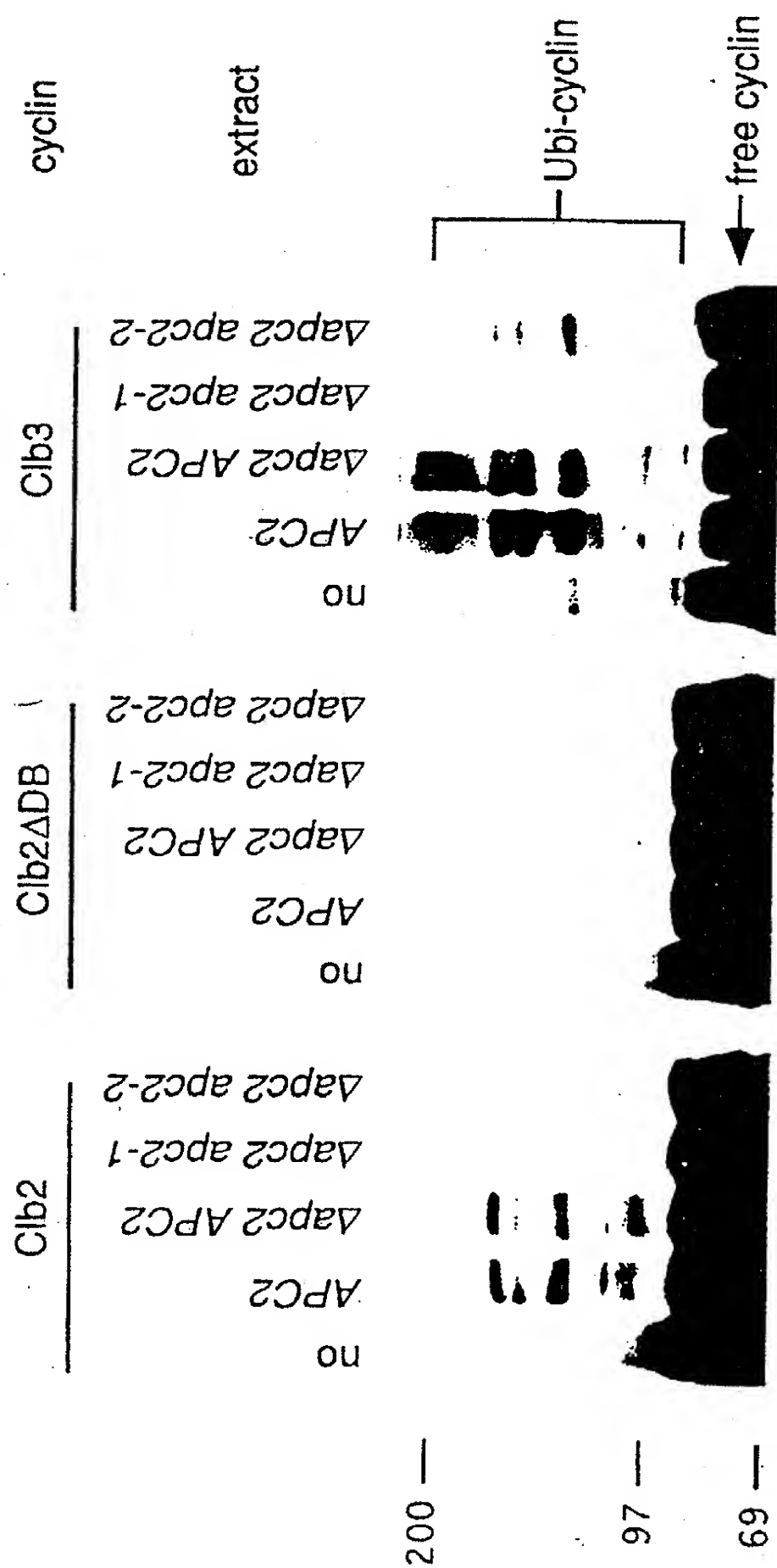


Fig. 14B

11A-C

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Fig. 11C



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